MAINTAINING NAVSEA's INVESTMENT IN DIGITAL DATA

Jerry McKernan
NSWC

Contents

- Current Data Storage Environment
- Single Source File Capabilities
- NAVSEA's Investment
- Return on Investment
- SGML Not Maintained
- Maintenance Costs
- Leveraging Navy's Investment

Current Data Storage Environment

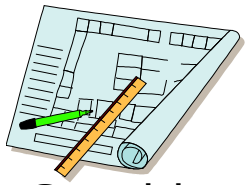
- Document/Content Management (Content@) System for Navy Technical Manuals
- TM Data
  - Documents Loaded = 3500+ TM's
  - Configuration/Metadata/MRUs
  - Create and deploy custom user interfaces for desktop and web clients

Current Data Storage Environment

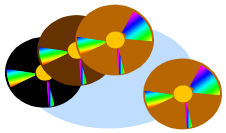
- SGML/XML editing environment
- Publishing tools
- Web-based interfaces for editors and reviewers (June)
- Workflow for editorial and publishing updates
  - **Interaction with other enterprise systems (TDMIS/JCALS)**
  - **Interaction with remote developers (Bath, Ingalls, NNS)**
  - **Automated tools for versioning, publishing, and distribution**

Legacy and New Acquisition Data

HARD COPY



Graphics

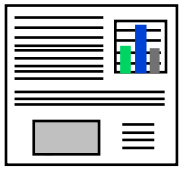


ELECTRONIC

SGML Editors

CREATE
REVISE PUBLISH
Core Content Repository

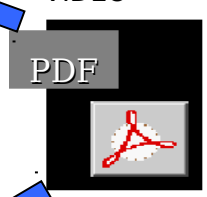
Graphic Editors



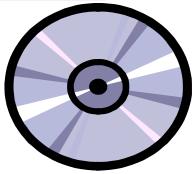
VIDEO

AUDIO

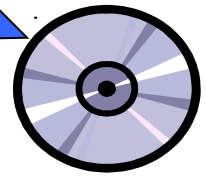
SINGLE SOURCE FILE



PDF



XML/HTML



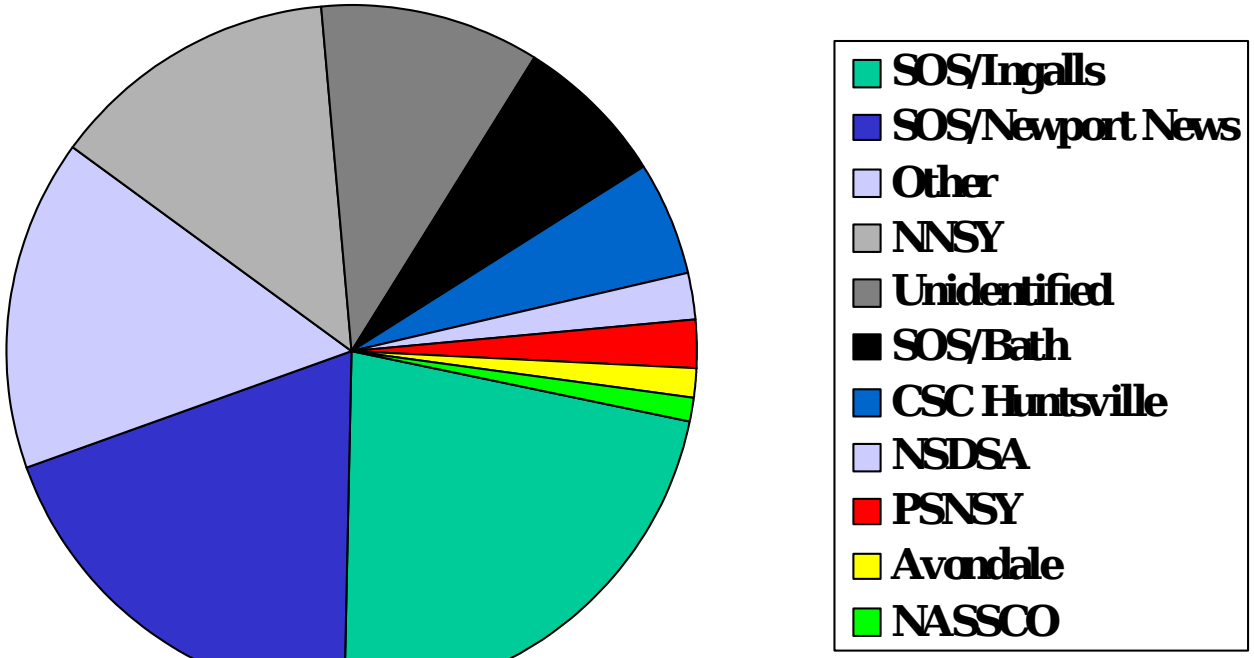
NAVSEA's INVESTMENT

RESOURCES	SPONSOR	INVESTMENT
• Legacy SGML Data	SEA 04	9M
• SGML Editing Environment	PM JCALS	70K
• TDMIS	SEA 04/DII	50K
• JCALS		2M
– Storage Area Network/Servers	PMS JCALS	
• Content@ Content Management Software		500K
– PC and Web client desktops	PMS JCALS OPNAV/DII	
– Navy Environment	PMS JCALS	600K
• XPP Publishing Software		

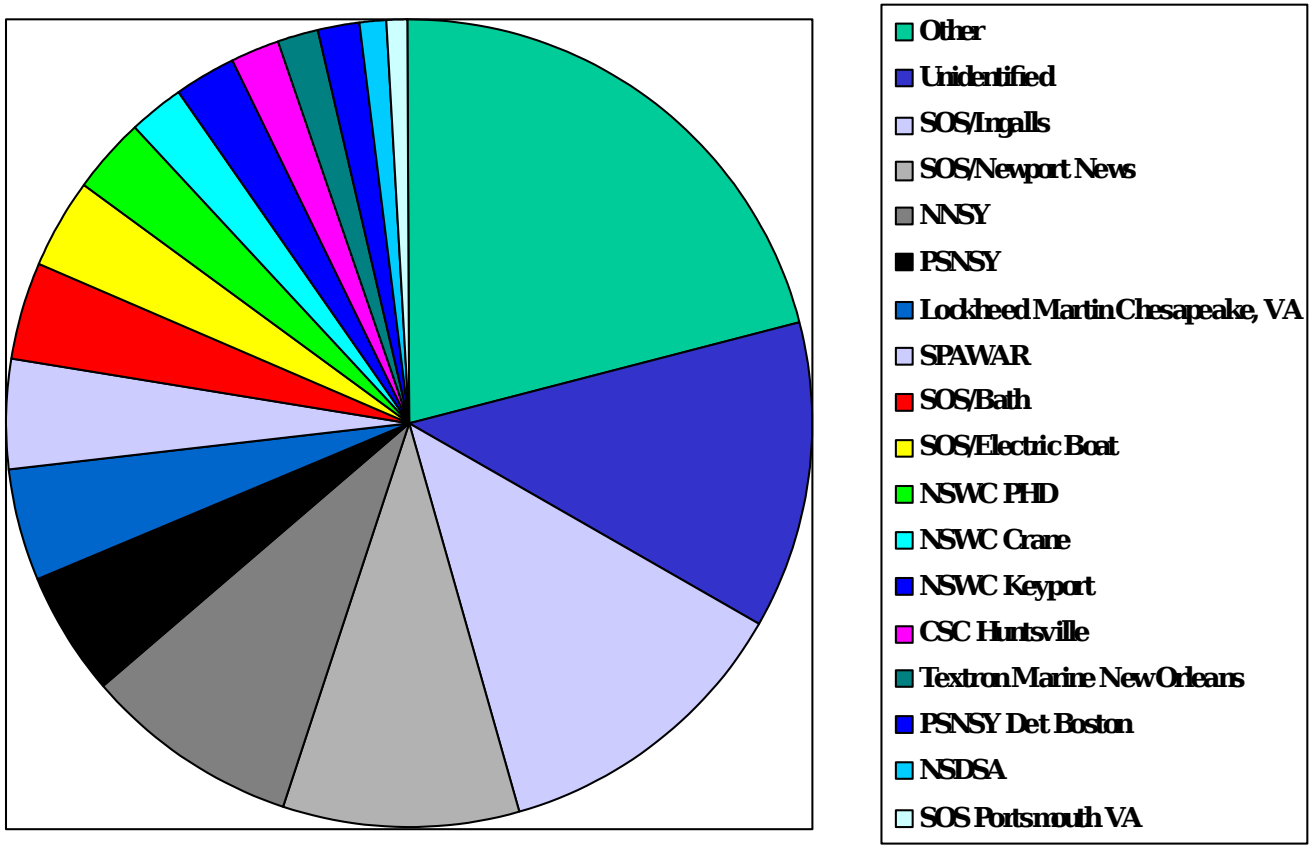
Return on Investment

- More efficient editorial process
- More efficient update process
- Reduced cycle times
- Cost avoidance due to data re-use
- Higher quality data and documents delivered to ships
- More frequent and specific updates
- 40% Reduction in document updates

NAVSSES TMMA SGML DATA (397 changes/revs)



ALL SGML TMS
(1033 changes/revs)



MAINTENANCE COSTS

Paper changes 397 Changes X 1K = 397K
@40% Cost Avoidance = 160K
Savings
Cost to do electronic 397K – 160K = 237K
Cost to fix electronic 397 changes X 320 = 127K
Cost to do paper and maintain electronic files = 524K

524K / 237K = 2.2 Cost Doubled

MAINTENANCE COSTS

Paper changes 1033 Changes X 1K = 1033K

@40% Cost Avoidance = 413K Savings

Cost to do electronic 1033K – 413K = 620K

Cost to fix electronic 1033 changes X 320 = 330.5K

Cost to do paper and maintain electronic files = 1363.5K

1363.5K / 620K = 2.2 Cost Doubled

LEVERAGING NAVY's INVESTMENT IN DIGITAL TECH DATA

- Maintain SGML Files
  - Mod contract that would require SGML
  - Sub out updates to qualified vendor or othe government activity

ONTRACT DATA REQUIREMENTS LIST

SYSTEM/ITEM - DDG 104, 106, 108, 109, 111, 112

DATA ITEM NO. – B004

REMARKS – For non-SGML tagged manuals, reproduction shall be contractor's original camera ready copy.
For SGML tagged manuals, SUPSHIP and NSDSA/PHD submittal shall be transmittal only, providing notification of manual completion and indicating that manuals are ready for printing from NSWC/CD-SSES electronic tech manual database.